

CLAIMS

What is claimed is:

1. A projection television comprising:
a screen displaying a picture;
a body casing forming an outer appearance of the projection television and combining with the screen;
a supporting unit provided on an inside of the body casing and supporting a bottom of the screen; and
a drain hole formed at a bottom of the supporting unit and discharging moisture permeated into the screen.
2. The projection television of claim 1, wherein the supporting unit comprises an insertion groove in which the bottom of the screen is inserted.
3. The projection television of claim 2, wherein the insertion groove comprises a first insertion groove and a second insertion groove, wherein the first insertion groove is formed at a lower level than the second insertion groove, to discharge the moisture through the drain hole.
4. The projection television of claim 3, wherein the supporting unit further comprises a depression formed in a center of the supporting unit and communicating with the first and second insertion grooves formed on upper parts of the depression, wherein the drain hole is formed at a bottom of the depression.
5. The projection television of claim 1, wherein the screen comprises:
a lenticular lens sheet on a front side of the screen; and
a fresnel lens sheet on a rear side of the screen, wherein the fresnel lens sheet is combined with the lenticular lens sheet.
6. The projection television of claim 2, wherein the screen comprises:
a lenticular lens sheet on a front side of the screen; and

a fresnel lens sheet on a rear side of the screen, wherein the fresnel lens sheet is combined with the lenticular lens sheet.

7. The projection television of claim 4, wherein the screen comprises:
a lenticular lens sheet on a front side of the screen; and
a fresnel lens sheet on a rear side of the screen, wherein the fresnel lens sheet is combined with the lenticular lens sheet.

8. The projection television of claim 7, wherein the body casing comprises:
a front casing comprising:
an upper cover having a front opening through which the screen is exposed and supporting the screen, and
a lower cover provided on a bottom of the upper cover; and
a rear casing combining with a rear of the front casing, wherein a supporting rib protrudes inward on an inside of the upper cover along an edge of the front opening of the upper cover and the supporting unit is provided between a bottom of the screen and the supporting rib.

9. The projection television of claim 8, further comprising a screen supporting bracket combined to the supporting rib to support a rear of the screen.

10. The projection television of claim 9, wherein the screen supporting bracket comprises:
a combining part formed corresponding to a shape of the support rib, to combine the supporting rib with the screen supporting bracket; and
a contacting part extending upward from the combining part, to support the screen and contacting the rear of the screen.

11. The projection television of claim 7, wherein the lenticular lens sheet is inserted into the first insertion groove and the fresnel lens sheet is inserted into the second insertion groove.

12. The projection television of claim 11, wherein a lower end of the lenticular lens sheet is positioned lower than a lower end of the fresnel lens sheet to discharge moisture accumulated on the lenticular lens through the drain hole.

13. The projection television of claim 4, wherein the depression comprises sloped sides wherein moisture accumulates on the first insertion groove and drains downward along one of the sloped sides and is discharged through the drain hole formed at the bottom of the depression.

14. The projection television of claim 13, wherein upper parts of the sloped sides are formed with the first and second insertion grooves, respectively at different heights, and each of the sloped sides have a rectangular-shaped corner to allow a bottom edge of the screen to be positioned in the rectangular-shaped corner when the screen is slidingly inserted downward into the supporting unit of the projection television.

15. The projection television of claim 9, wherein the screen supporting bracket is made of a rigid material to support the rear of the screen.

16. The projection television of claim 8, wherein moisture permeates into a gap between the upper cover and the lenticular lens sheet of the screen and flows downward along a surface of the lenticular lens sheet and reaches the first insertion groove of the supporting unit and is drained to the depression and discharged to an outside of the projection television through the drain hole.

17. The projection television of claim 16, wherein the drain hole prevents the moisture from permeating through a gap between the lenticular lens sheet and the fresnel lens sheet when a user cleans the screen with a cleansing liquid, thereby preventing the projection television from getting flecks on the screen.

18. The projection television of claim 17, wherein the drain hole prevents the moisture from permeating into the gap between the lenticular lens sheet and the fresnel lens sheet and from deteriorating the screen.